

SECTION 0 - SCOPE OF PROJECT

This project includes but is not limited to the following major items:

Construction of the N-1400 and Spur A totaling 48.00 stations involving: clearing, grubbing, excavation, embankment to subgrade, landing and turnout construction, culvert installation and application of 3-inch-minus ballast.

Development of an existing hardrock source at milepost 1.29 of the N-1300 road. Development will involve drilling, shooting and processing rock to generate riprap and 3-inch-minus subgrade ballast.

Development of an existing gravel source at milepost 0.40 of the S-1100 road. Development will involve processing rock to generate gravel surfacing.

Construction centerline is staked. Any additional staking or referencing necessary to build the road to the following specifications shall be the responsibility of the Purchaser. Construction staking notes are available on request.

SECTION 1 - GENERAL CLAUSES

1.1-1

Clauses in this plan apply to all construction including landings unless otherwise noted.

1.1-2

Construction of the following road is required. This road shall be constructed on the State's location and in accordance with this Road Plan.

Road	Length	Туре
N-1400	14.24 stations (sta 59+62 to 73+86)	Construction

1.1-3

Construction of the following roads is not required. If the Purchaser elects to use these roads, they shall be constructed on the State's location and in accordance with this Road Plan.

Road	Length	Туре
N-1400	15.12 stations (sta 73+86 to 88+98)	Construction
Spur A	18.64 stations (sta 0+00 to 18+64)	Construction

1.1-4

If the purchaser desires a road location or design change, a revised road plan shall be submitted to the State for consideration.

1.1-5

On this plan quantities are minimum acceptable values. Additional quantities required by the State because of hidden conditions or purchaser's choice of construction season or techniques shall be at the purchaser's expense.

1.2-1

Construction or abandonment of any road shall not be permitted between November 1 and March 31 unless authorized in writing by the contract administrator. If permission is granted to operate between November 1 and March 31, the purchaser may be required to provide a "Closed Season Plan" to include further protection of water, soil, roads, and other forest assets.

1.2-2

Purchaser shall not use roads constructed under this Road Plan for hauling, other than timber cut on the right of way, without written approval from the contract administrator.

1.2.1-1

Pioneering shall not extend past construction that will be completed during the current construction season. Pioneering shall not extend more than 500 feet beyond completed construction at any given time unless approved, in writing, by the contract administrator. In addition, the following measures will be taken as pioneering progresses:

- Drainage shall be provided on all uncompleted construction as approved, in writing, by the contract administrator.
- Clearing and grubbing shall be completed prior to starting excavation and embankment.
- Culvert placement in live streams shall precede embankment.
- Culverts shall be installed in completed subgrade as construction progresses.
- Subgrade, ditches and culvert installations, once completed, are subject to written approval by the contract administrator prior to rock application.

1.3-1

Rock hauling on any road shall not be permitted between November 1 and March 31 unless authorized in writing by the contract administrator. If permission is granted to operate between November 1 and March 31, the purchaser may be required to provide a "Closed Season Plan" to include further protection of water, soil, roads, and other forest assets. Also, if permission is granted to operate between December 1 and February 15, activity and hauling from at the S-1100 Rock Pit shall be restricted to the hours between one hour after official sunrise and one hour before official sunset. This restriction is a condition of the Hatchery/ Bear Creek Roost Bald Eagle management plan.

1.4-3

Construction stake reference points (R.P.'s) that are moved or damaged at any time during construction shall be reset in their original locations by the purchaser. Excavation and embankment shall not proceed on road segments controlled by said R.P.'s until all moved or damaged R.P.'s are reset.

1.5-1

Maintenance on roads listed in Contract Clause <u>C-50: Purchaser Road</u>
<u>Maintenance and Repair</u> and <u>C-60: Designated Road Maintainer</u> shall be performed in accordance with "Forest Access Road Maintenance Specifications." If permission is granted to operate between November 1 and March 31, the purchaser shall be required to maintain all haul roads including those listed as "designated maintainer roads". If other operators are using, or desire to use these "designated maintainer roads", a joint operating plan shall be developed. All parties shall follow this plan.

1.5-3

Snowplowing shall not be permitted unless authorized, in writing, by the contract administrator.

SECTION 2 - CLEARING

2.1-1

Fell all vegetative material larger than 2 inches DBH or over 10 feet high between the marked right of way boundaries or if not marked in the field, between clearing limits specified on "Typical Section Sheet."

SECTION 3 - GRUBBING

3-1

All stumps shall be removed that fall between grubbing limits shown on the "Typical Section Sheet." Also those stumps with roots undercut by excavation shall be removed.

3-2

Grubbing limits are defined as the entire area between the external limits shown on the "Typical Section Sheet."

SECTION 4 - DEBRIS DISPOSAL AND REMOVAL

4.1-1

Right of way debris is defined as all non-merchantable vegetative material larger than one cubic foot in volume within the clearing limits, excluding stumps between the clearing limits and grubbing limits.

4.1-2

All right of way debris disposal shall be completed prior to the application of rock.

4.2.3 - 3

Right of way debris shall not be placed against standing timber.

4.2.3-4

Right of way debris shall be scattered outside the clearing limits in natural openings, unless otherwise detailed in this plan.

SECTION 5 - EXCAVATION

5.1-1

Unless controlled by construction stakes or specific design sheets herein, roads shall be constructed in accordance with dimensions shown on the "Typical Section Sheet."

5.1-2

Purchaser shall not bury merchantable material.

5.1-3

Road grade and alignment shall conform to the State's marked location and drawings. Grade and alignment shall have smooth continuity without abrupt changes in direction. Maximum grades are 18 percent favorable and 15 percent adverse, unless otherwise detailed in this plan. Minimum radius curve is 50 feet.

5.1-5

Curve widening on the inside of curves shall be 2 feet extra on 80 to 100 foot radius curves and 4 feet extra on 50 to 79 foot radius curves.

5.1-7

Roads shall be constructed or reconstructed to the dimensions shown on the "Typical Section Sheet," within the tolerances listed below. Tolerance classes for each road are listed on the "Typical Section Sheet."

Tolerance Class	А	В	С
Road Width (feet)	+1.5	+1.5	+2.0
Subgrade Elevation (feet +/-)	0.5	1.0	2.0
Centerline Alignment (feet lt./rt.)	1.0	1.5	3.0

5.1-8

Excavation slopes shall be constructed no steeper than shown on the following table except as construction staked or designed:

Material Type	Excavation Slope Ratio
Common Earth	1:1
Fractured or loose rock	1⁄2:1
Hardpan or solid rock	1/4:1

5.1-9

Excavation and embankment slopes shall be constructed to a uniform line and left rough for easier revegetation.

5 1-10

Except as construction staked or designed, embankments shall be widened as follows:

Height at Centerline	Subgrade Widening
Less than 6 feet	2 feet
6 feet or over	4 feet

5.1-11

Embankment slopes shall be constructed no steeper than shown on the following table except as construction staked or designed:

Material Type	Embankment Slope Ratio
Common earth and rounded gravel	1½:1
Angular rock	11/4:1
Sandy Soils	2:1

5.1-12

Organic material shall be excluded from embankment.

5 1-14

Where side slopes exceed 50 percent, full bench construction shall be utilized for the entire subgrade width except as construction staked or designed.

5.1-21

Waste material shall not be deposited within 30 feet of a culvert installation.

5.1-22

Waste material shall not be deposited within 30 feet of a live stream.

5.1-23

Turnout locations noted on this plan are approximate. Locations shall be adjusted to fit final subgrade alignment and sight distances. Locations shall be subject to written approval of the contract administrator.

5.1-24

Turnouts shall be intervisible with a maximum of 1,000 feet between turnouts unless shown otherwise on drawings. Minimum dimensions are shown on the "Typical Section Sheet."

5.2-1

Road pioneering operations shall not undercut the final cut slope, deposit excavated material outside the clearing limits or restrict drainage.

5.3-1

All embankment and waste material shall be compacted. The minimum acceptable compaction is achieved by placing embankments in 2 foot or shallower lifts and routing excavation equipment over entire width of the lifts.

5.4-1

Silt-bearing runoff shall not be permitted to go into streams.

5.5-2

Constructed or reconstructed subgrades shall be compacted.

5.5 - 5

Finished subgrade shall be crowned as shown on "Typical Section Sheet," uniform, firm, rut-free and shaped to ensure surface runoff in an even, unconcentrated manner.

SECTION 6 - DRAINAGE

6.2.1-1

Purchaser shall furnish, install and maintain galvanized metal (AASHTO specification No. M36) or corrugated polyethylene tubing (AASHTO specification No. M294) culverts as designated on the "Materials List."

6.2.1-2

Annular corrugated bands and culvert ends shall be used on metal culverts. On culverts 24 inches and smaller, bands shall have a minimum width of 12 inches; on culverts over 24 inches, bands shall have a minimum width of 24 inches. Manufacturer's approved connectors shall be used for corrugated polyethylene tubing.

6.2.1-5

On required roads: culverts, downspouts, flumes, bands and gaskets as listed on the "Materials List" which are not installed shall become property of the State.

6.2.1-6

Galvanized metal culverts shall conform to the following specifications for gage and corrugation as a function of diameter.

Diameter	Gage	Corrugation
18"	16 (0.064")	2 ² / ₃ " X ¹ / ₂ "
24" to 48"	14 (0.079")	2 ² / ₃ " X ¹ / ₂ "
54" to 96"	14 (0.079")	3" X 1"

6.2.2.1-1

Culvert, downspout, flume and energy dissipator installation shall be in accordance with the "Culvert and Drainage Specifications" and the <u>National Corrugated Steel</u>
<u>Pipe Association Installation Manual for Corrugated Steel Drainage Structures.</u>

6.2.2.2-1

Any damaged galvanized coating or cut ends shall be retreated with a minimum of 2 coats of zinc rich paint.

6.2.2.3-1

Cross drains and surface culverts on road grades in excess of 3 percent shall be skewed at least 30 degrees from perpendicular to the road centerline, except that cross drain culverts at the low points of dips in roads shall not be skewed.

6.2.2.3-2

Cross drain culverts shall be installed at a slope steeper than the incoming ditch grade, but not at less than 3 percent.

6.2.2.4-1

Installations of culverts 36 inches in diameter and over shall be subject to written approval by the contract administrator prior to making backfill.

6.2.2.5-1

Drainage structure out falls shall not terminate directly on unprotected soil that will erode. Downspouts, flumes and energy dissipators shall be installed to prevent erosion.

6.3-1

Ditches shall be constructed concurrently with construction of the subgrade and shall drain to culverts, ditchouts, and natural drainages.

6.3-2

Shaping the ditch line, culvert headwalls and catch-basins shall be completed prior to application of rock and shall be done in accordance with the "Typical Section" and "Culvert and Drainage Specifications" sheets.

6.4-1

Catch basins shall be constructed to resist erosion in accordance with the "Culvert and Drainage Specifications: Catch Basin" drawing. Minimum dimensions shall be two feet wide and four feet long with back slopes consistent with <u>Clause 5.1-8:</u> <u>Excavation-Slopes</u>.

6.5-1

Headwalls shall be constructed in accordance with the "Culvert and Drainage Specifications Headwall" drawing at all ditch relief culverts.

SECTION 7 - ROCK

7.1-1

Rock for construction under this contract may be obtained from existing pits on State land as listed below. Development and use shall be in accordance with a written "Pit Development and Reclamation Plan" prepared by the Purchaser and subject to written approval by the contract administrator. Upon completion of pit operations, the pits shall be left in the condition specified in said plan, subject to written approval by the contract administrator. Use of material from any other source must have prior written approval from the contract administrator. If other operators are using, or desire to use these pits, a joint operating plan shall be developed. All parties shall follow this plan.

Pit Location

Phyllite Pit NE ¼, SW ¼, Sec. 33 T38N, R5E

Remarks

Development of an existing hardrock source at milepost 1.29 of the N-1300 road. Development will involve drilling, shooting and processing rock to generate riprap and 3-inch-minus subgrade ballast.

S-1100 Pit NW ¼, SW ¼ , Sec. 1 T39N, R5E Development of an existing gravel source at milepost 0.40 of the S-1100 road. Development will involve processing rock to generate gravel surfacing. See clause 1.3-1 for operating restrictions.

7.1-5

Rock for subgrade ballast, surfacing or riprap may be obtained from private sources at Purchaser's expense. The quality of any alternate rock must be equal to or greater than the quality of the rock specified in clause 7.1-1. Use of rock from any alternate source is subject to written approval from the contract administrator.

7.2.1.2-2

Rock shall contain no vegetative debris, dirt, or trash.

7.4.2 - 1

Apply at least the minimum required rock quantity as shown on "Typical Section Sheet."

7.4.2-2

Subgrade shall be approved, in writing, by the contract administrator prior to application of rock.

7.4.2-7

Turnouts and curve widening shall have rock applied to the same depth and specifications as the traveled way.

7.4.2-8

Each lift of rock shall be crowned as shown on "Typical Section Sheet," and shall be uniform, firm, rut-free and shaped to ensure surface runoff in an even, unconcentrated manner.

7.4.3-3

Rock shall be spread, shaped and compacted concurrently with rock hauling operations.

7.4.4-1

Riprap shall consist of angular stone placed as indicated in this plan, or as directed by the contract administrator.

Loose Riprap - The stone for loose riprap shall be hard, sound and durable. It shall be free from segregation, seams, cracks and other defects tending to destroy its resistance to weather. Loose riprap shall be free of rock fines, soil or other extraneous material.

Heavy Loose Riprap Grading Requirements		
At Least/Not More Than	Minimum Size	Maximum Size
40% / 90%	1 Ton (1/2 cu. yd.)	
70% / 90%	300 lbs. (2 cu. ft.)	
10% / 30%		50 lbs.

Light Loose Riprap Grading Requirements		
At Least /Not More Than	Size Range	Maximum Size
20% / 90%	300 lbs. to 1 Ton	
80% /	50 lbs. to 1 Ton	
10% / 20%		50 lbs.

7.4.4-2

Riprap shall be set in place in conjunction with or immediately following construction of the embankment. No placement by end-dumping or dropping of riprap shall be allowed.

SECTION 9 - ROAD AND LANDING TREATMENT

9.1-1

The following roads shall be abandoned by the Purchaser prior to the termination of this contract.

Road	Location	Treatment
N-1400	15.12 stations (sta 73+86 to 88+98)	Abandoned
Spur A	18.64 stations (sta 0+00 to 18+64)	Abandoned

9.1-3

"Abandoned" treatment shall consist of:

- Remove all ditch relief culverts. The resulting slopes shall be 1:1 or flatter.
 The removed fill material shall be placed and compacted in a location that will not erode into any type 1 through 5 waters or wetlands.
- Remove all culverts in natural drainages. The resulting slopes shall be 1:1 or flatter. Strive for matching the existing native streambank gradient. The natural streambed width shall be re-established. The removed fill material shall be placed and compacted in a location that will not erode into any type 1 through 5 waters or wetlands.
- 3. All removed culverts shall be property of the Purchaser and shall be transported off site.

- 4. Construct non-drivable waterbars at natural drainage points and at a spacing which will produce a vertical drop of no more than 20 feet between waterbars and with a maximum horizontal spacing of 400 feet.
- 5. Waterbars shall be skewed at least 30 degrees from perpendicular to the road centerline on roads in excess of 3 percent grade.
- 6. Waterbars shall intercept the ditch and be keyed into the road cut slope and be outsloped to provide positive drainage. Outlets shall be on stable locations.
- 7. Inslope or outslope the road as appropriate.
- 8. Remove bridges and other structures.
- Pull back unstable fill that has potential of failing and entering any type 1 through 5 waters or wetlands. Removed material shall be placed and compacted in a stable location.
- 10. Remove berms except as designed.
- 11. Block the road by constructing a triple tank trap so that four wheel highway vehicles cannot pass the point of abandonment. If necessary construct a vehicular turn-around near the point of abandonment.
- 12. Revegetate all exposed soils resulting from the abandonment work in accordance with "Section 10 Revegetation".

9.2-1

Purchaser shall reduce or relocate landing debris, in a manner approved, in writing, by the contract administrator, to avoid landing failures and potential debris slides.

9.2-2

Purchaser shall provide for drainage of all landing surfaces as approved, in writing, by the contract administrator.

SECTION 10 - REVEGETATION

10.1-1

Purchaser shall revegetate all exposed soils within the grubbing limits resulting from construction or abandonment.

10.1-2

Purchaser shall perform revegetation during the first available opportunity after construction or abandonment is completed. Soils shall not be allowed to sit exposed for longer than one month without receiving revegetation treatment unless otherwise approved in writing by the contract administrator.

10.1-3

Revegetated soils that fail to germinate or are disturbed and re-exposed through any cause shall be revegetated to the point of full coverage.

10.2-1

Revegetation of all exposed soils shall be accomplished by manual dispersal of grass seed and fertilizer unless otherwise detailed in this plan. Other methods of revegetation must be approved in writing by the contract administrator.

10.3-1-1 Seed mix shall meet the following specifications:

Seed Species	% by Weight
Creeping Red Fescue	50
Elf Perennial Rye Grass	25
Highland Colonial Bentgrass	15
White Clover	10

All seed species shall have a minimum 90% germination rate. Weed seed shall not exceed 0.5% by weight.

10.3-2 Fertilizer shall meet the following specifications:

Chemical Component	% by Weight
Nitrogen	16
Phosphorous	16
Potassium	16
Sulphur	3
Inerts	49

10.3-3

Revegetation application rates shall result in 50 pounds of in place seed mix and 200 pounds of in place fertilizer mix per acre of exposed soil.

10.4-1

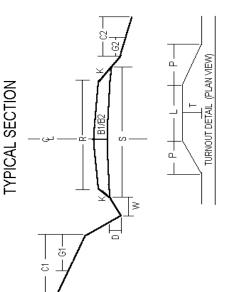
Purchaser shall provide a protective cover over the revegetated area if revegetation occurs between July 1 and March 31. The protective cover may consist of, but not be limited to, such items as dispersed straw, jute matting or clear plastic sheets. The protective cover requirement may be waived by the contract administrator in writing if the Purchaser is able to demonstrate a revegetation plan that will result in the establishment of a uniform dense crop of 3 inch tall grass by October 31.

ROAD#		N-1400	N-1400	SPUR A	
REQUIRED / OPTIONAL		REQUIRED	OPTIONAL	OPTIONAL	
CONSTRUCT / RECONSTRUCT	JCT	CONSTRUCT	CONSTRUCT	CONSTRUCT	
TOLERANCE CLASS (A/B/C)	(c)	0	၁	၁	
STATION / MP TO		59+62	73+86	00+0	
STATION / MP	l	73+86	88+98	18+64	
ROAD WIDTH	œ	12	12	12	
CROWN (INCHES @ C/L)		3	3	ε	
DITCH WIDTH	W	3	2	2	
DITCH DEPTH	D	1	1	1	
TURNOUT LENGTH	٦	20	25	52	
TURNOUT WIDTH	⊢	10	10	10	
TURNOUT TAPER	۵	25	25	25	
GRUBBING	61	5	5	5	
	G2	5	5	5	
CLEARING	C1	10	10	10	
	C2	10	10	10	
ROCK FILLSLOPE	K:1	1 1/2	1 1/2	1 1/2	
❖ BALLAST DEPTH	B1	18	12	12	
CUBIC YARDS / STATION		126	80	80	
> TOTAL CY BALLAST		1794	1210	1491	
SURFACING DEPTH	B2	6	6	9	
CUBIC YARDS / STATION		37	37	37	
> TOTAL CY SURFACING		527	559	069	
Y TOTAL CUBIC YARDS		2321	1769	2181	
SUBGRADE WIDTH	S	18	16.5	16.5	
BRUSHCUT (Y/N)		•	-	-	
BLADE, SHAPE, & DITCH (Y/N)	/N)	-	-	-	

TS Name: Walkin' App. No. 77866

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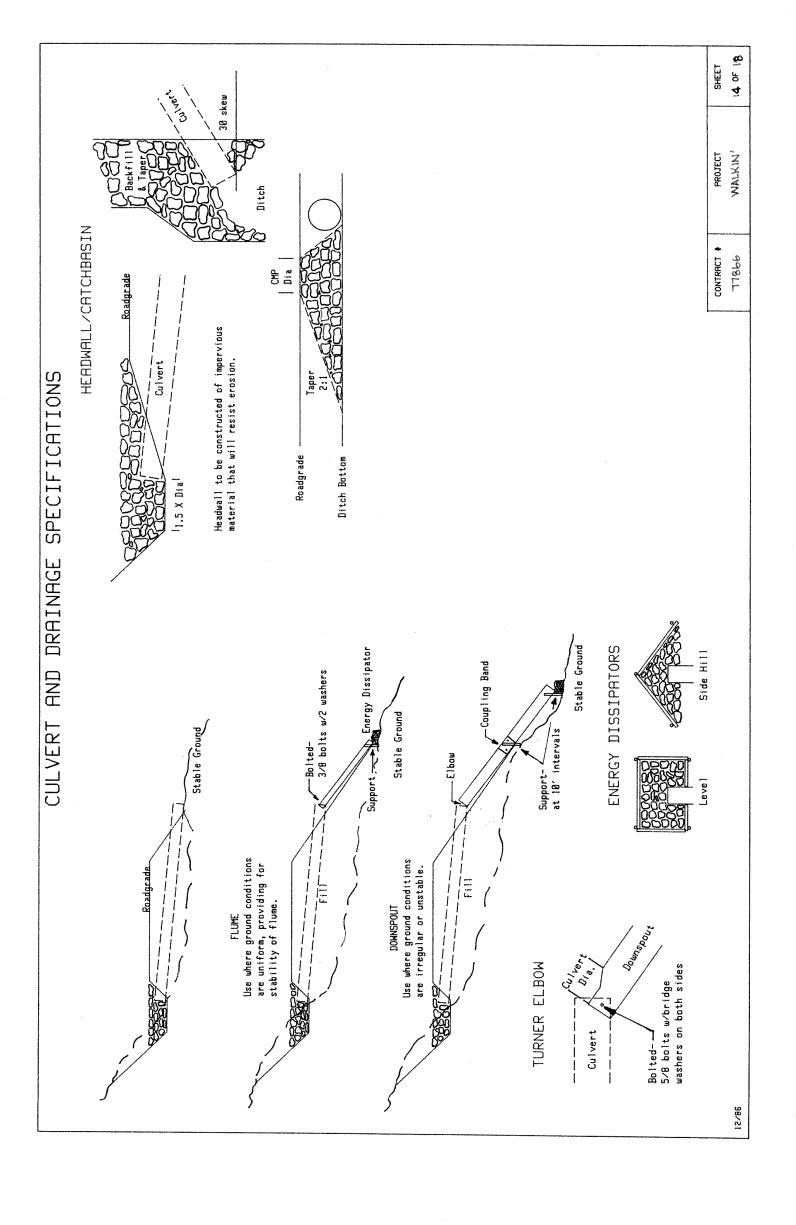
- *
- Specified Rock Depth is FINISHED COMPACTED DEPTH in inches.
 Specified Rock Quantity is LOOSE MEASURE (Truck Cubic Yards) needed to accomplish specified FINISHED COMPACTED DEPTH. Rock quantities include volume for turnouts, curve widening and landings. A

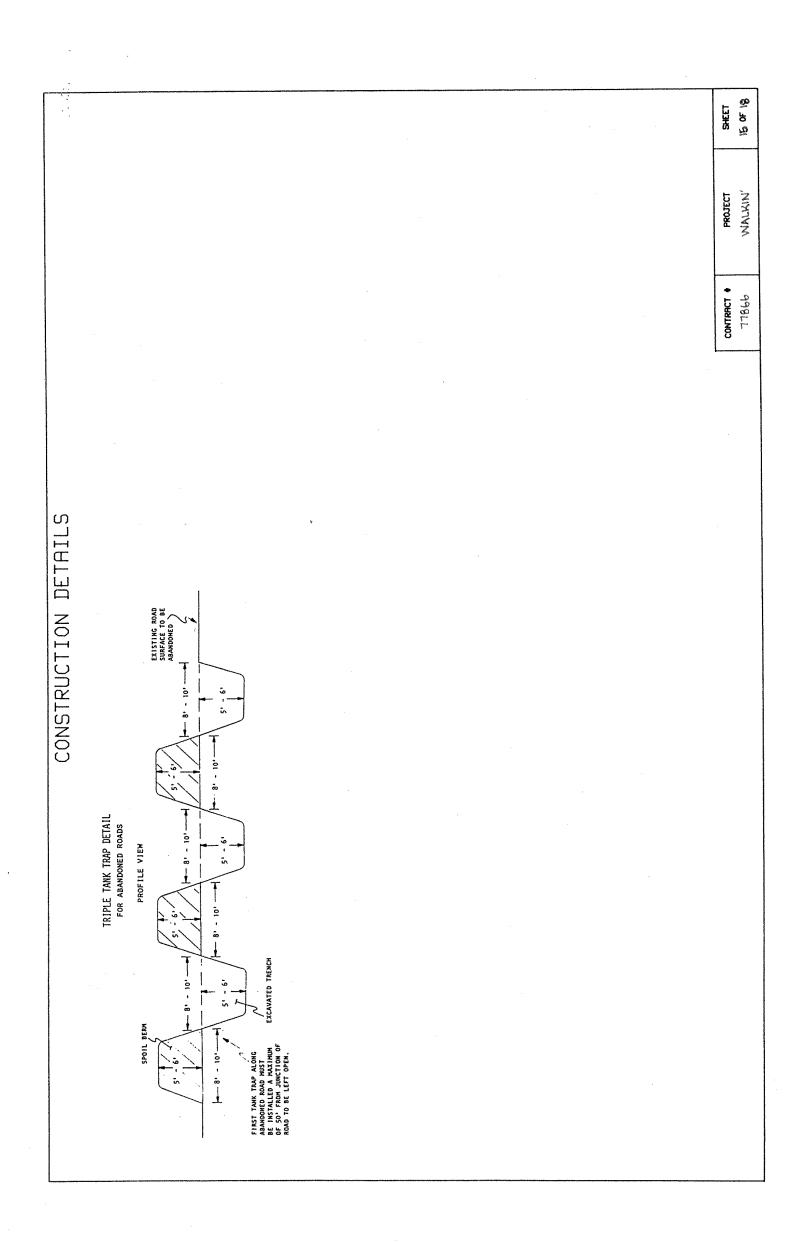


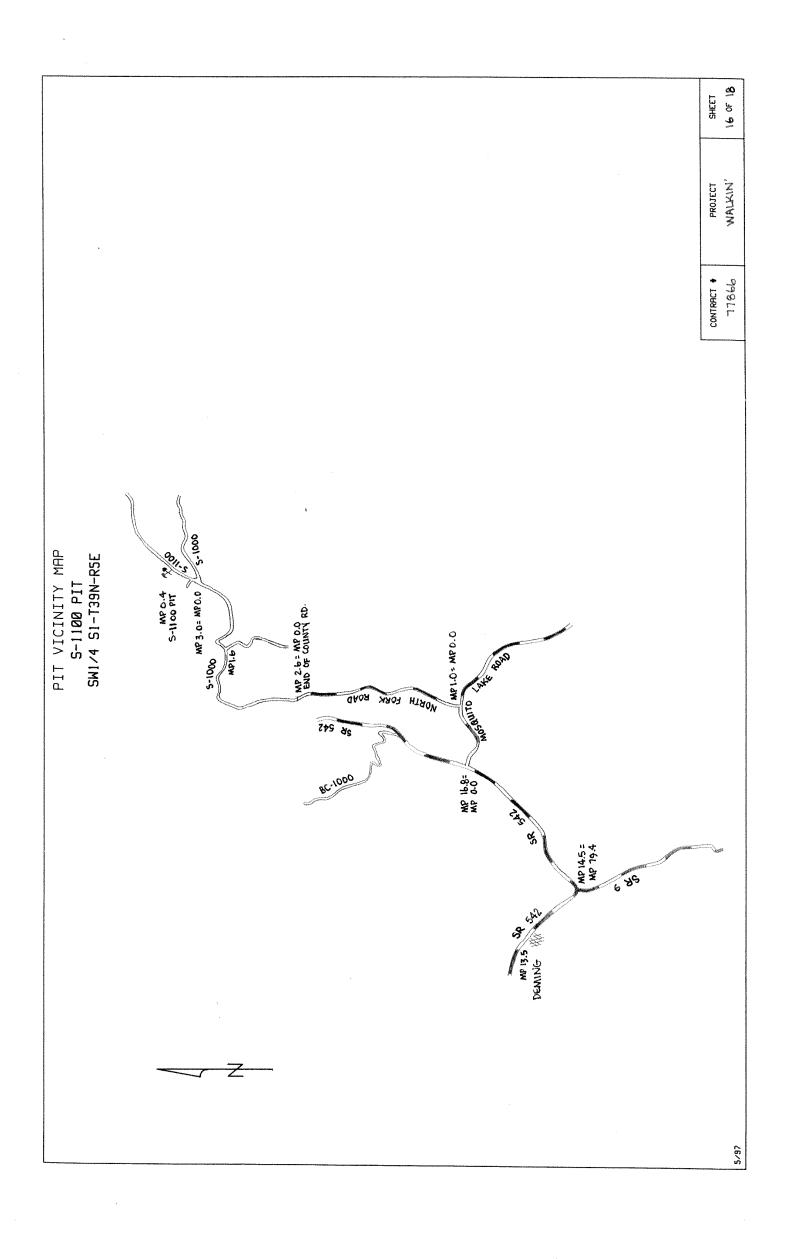
MATERIALS LIST

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	Note: Galvanized metal culverts shall conform to the following specifications for gage and corrugation as a function of the diameter: Diameter Gage Corrugation 16 2 ² /₃ x ¹ /₂ 14 2 ² /₃ x ¹ /₂ 14 3 x 1 x 1 14 3 x 1 x 1 14 3 x 1 3 x 1 14 3 x 1 14 3 x 1 3 x 1 14 3 x 1 3 x 1 14 3 x 1															XX - PD PS or GM
	REMARKS tal culverts shall conform t nd corrugation as a functic Gage 16 14															C - Concrete
	Note: Galvanized me gage a <u>Diameter</u> 18" 24" – 48" 54" – 96"															AM - Aluminized Metal
	TOLERANCE	ပ	ပ	ပ	ပ	ပ	ပ	ပ	ပ	ပ						
	FILL	F	F	F	F	F	F	F	F	F						
	TYPE	_		_		_	Ŧ	Ŧ	_							Polyathylana Pina Diral W
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	TYPE	1		•		'	•	•								
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	TYPE		'				•	ı		•						lle/// c
_	DOWNSPOUT	-	-	-												Polyathylana Pina Single Wall
LENGTH	TYPE	GM	GM	GM	×	×	×	×	×	×						orig c
빌	CULVERT	30	30	30	30	34	30	30	30	30						hylan
	DIAMETER	18	18	18	18	18	24	24	18	18						Jolyat
	STATION or MILEPOST	62+08	06+99	72+26	78+96	0+35	8+67	11+13	14+54	39+41						ו מ מ
LOCATION	ROAD#	N-1400				Spur A (GM - Galvanizad Matal

13







PIT SPECIFICATIONS

ALL ROCK PIT OPERATIONS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

PIT WALLS SHALL BE MAINTAINED IN A CONDITION TO REDUCE THE POSSIBILITY OF THE WALLS SLIDING OR FAILING.

PIT WALLS SHALL BE MAINTAINED AT A HEIGHT NO GREATER THAN 12 ${\rm ft.}$

PIT WALLS SHALL NOT BE UNDERMINED.

THE WIDTH OF WORKING BENCHES SHALL BE A MINIMUM OF 1-1/2 TIMES THE MAXIMUM LENGTH OF THE LARGEST MACHINE IN USE.

PIT FLOORS AND BENCHES SHALL HAVE A UNIFORM SURFACE AND BE SELF DRAINED AT A MINIMUM OF 2% OUTSLOPE.

SAFE CONTROL OF BORROW PIT WALLS, INCLUDING THE OVERALL SLOPE OF WALLS, SHALL BE CONSISTENT WITH RECOGNIZED ENGINEERING STANDARDS AND THE NATURE OF THE GROUND AND TYPE OF MATERIAL BEING EXCAVATED.

EXCAVATION METHODS SHALL BE SELECTED WHICH WILL ENSURE WALL AND BANK STABILITY INCLUDING BENCHING AS NECESSARY TO OBTAIN A SAFE OVERALL SLOPE IN ACCORDANCE WITH THE FOLLOWING TABLE:

MATERIAL MAXIMUM MAXIMUM SLOPE ANGLE HORIZ::VERT, VERT, DEGREES COMPACTED SHARP SAND 1-1/2:1 34 ANGRAGE SOLID ROCK; COMPACT SHALE 0:1 90

SHEET	17 OF 18
PROJECT	NALKIN'
CONTRACT #	77866

DEPARTMENT OF INTIUNAL RESOURCES

FOREST ACCESS ROAD

ROAD MAINTENANCE SPECIFICATIONS

Structures

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1. Repair bridges, culverts, cattle guards, fences and other road structures to condition required by construction specifications.

1. Do maintenance work to minimize damage from the elements such as blading to insure correct runoff, ditch and culvert cleaning, water bars.

Termination of Use or End of Season

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Same as I above but not to exceed the condition of the road on the date the contract

III. A.R.R.F. - Direct maintenance to comply with these specifications.

was signed,

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1. Remove fallen timber, limbs, stumps from slopes or roadway.

F. Debris

II. Existing Roads - Timber Safe, Operator Maintained

I. NEW ROADS (Prior to acceptance of contract or acceptance on timber sale)

- A. Cuts and Fills
- 1. Maintain slope lines as constructed. Remove slides from the ditches and roadway. Replace fills to $1\frac{1}{2}-1$ slopes with selected material or as directed. Remove overhanging material from cut slopes.
- Material from slides or other sources requiring removal shall not be deposited in streams or at locations where it will erode into streams or water courses.
- Undesirable slide materials and debris shall not be mixed into the surface material.
- B. Surface
- Grade and shape road surface, turnouts and shoulders to original crown, inslope or outslope as directed to provide suitable traveled surface and surface water runoff in an even, unconcentrated manner.
- 2. Blading must not undercut backslope at bottom of ditchline.
- 3. Watering may be required to control dust and to retain fine surface rock.
- 4. Desirable surface material shall not be bladed off the roadway.
- 5. Replace surface material lost or worn away.
- 6. Remove berms except as directed by the State.
- C. Drainage
- Keep ditches and drainage channels at outlets and inlets of culverts clear
 of obstructions and functioning as intended.
- 2. Inspect and clean culverts at least monthly, with addition inspection during storms and periods of high runoff. This must be done even during periods of inactivity.
- Add stable material at outlet end of the culvert as needed to stabilize stream bed.
- Headwalls maintain to road shoulder level with material that will resist erosion.
- 5. Keep silt bearing surface runoff from getting into live streams.

